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The invention relates to a radial compressor comprising two rotors (1), (2), a housing (6), an inlet channel (16) and an outlet channel (11). The rotors are arranged in the housing in such a way that the blades (9) of one rotor (1) engage in the hollow areas between the blades (15) of the other rotor (2). One of the blades displaces more or less volume in one of the hollow areas when the rotors rotate such that fluid is ejected through the outlet channel (11) or admitted through the inlet channel (16) in order to generate pressure that is higher than that generated by conventional single-step radial compressors. The invention also relates to a rotor for one such radial compressor and a respirator equipped with an inventive radial compressor.

